

CLAIMS AMENDMENTS

1. (Original) A method for dynamically initializing a view for a streaming database system, comprising:

- accessing at least one stream of events;
- materializing a view from said stream, wherein said view is dynamically defined from said stream of events from said streaming database system;
- processing a plurality of view snapshots from said view; and
- generating an initialized view in accordance with said view snapshots wherein said initialized view incorporates new events of said stream.

2. (Original) The method as recited in Claim 1 wherein said initialized view comprises a plurality of row data structures.

3. (Original) The method of Claim 1, wherein said view is a stateful view resulting from a stateful stream, said stateful view having a bounded number of rows.

4. (Original) The method of Claim 3, wherein each of said view snapshots of said stateful view comprise a state of said stateful view including events existent at said materializing of said stateful view and events accessed after said materializing of said stateful view at a particular time.

5. (Original) The method of Claim 2, wherein said view is a stateless view resulting from a stateless stream, said stateless view having an unbounded number of rows.

6. (Original) The method of Claim 5, wherein each of said view snapshots of said stateless view comprise a state of said stateless view including events existent at said materializing of said stateless view, including a last event processed during said materializing of said stateless view.

7. (Original) The method of Claim 1, further comprising:
processing a plurality of view snapshots by maintaining a sequence of a plurality
of preceding current view snapshots.

8. (Original) The method of Claim 7, further comprising:
applying a batch set of events to said processing of said view snapshots, wherein
each event of said batch set has a corresponding one of said view snapshots.

9. (Original) The method of Claim 1, wherein said generating of said initialized
view is configured to accomplish a recovery of a view state.

10. (Original) The method of Claim 1, wherein said generating of said initialized
view is configured to accomplish a re-enabling of a view after a disabling of a view.

11. (Original) The method of Claim 1, wherein said generating of said initialized
view is configured to accomplish a load balancing of a view maintenance process.

12. (Original) A system for dynamically initializing a view for a streaming
database system, comprising:

a view engine for accessing a stream of events;

said view engine for materializing an initial view from said stream, wherein said
initial view comprises a dynamically defined view of said stream of events from said
streaming database system;

said view engine configured for processing a plurality of recent view snapshots
from said initial view;

said view engine configured for generating a view state derived from each of said
recent view snapshots; and

said view engine further configured for maintaining an updated view in
accordance with said view state, wherein said updated view incorporates new events of
said stream.

13. (Currently Amended) The system of Claim ~~13~~12, wherein said updated view comprises a plurality of row data structures.

14. (Currently Amended) The system of Claim ~~13~~12, wherein said initial view is a stateful view resulting from a stateful stream, said stateful view having a bounded number of rows.

15. (Currently Amended) The system of Claim ~~15~~14, wherein each of said view snapshots of said stateful view comprise a state of said initial view including events existent at said materializing of said initial view and events accessed after said materializing of said initial view at a particular time.

16. (Currently Amended) The system of Claim ~~14~~13, wherein said initial view is a stateless view resulting from a stateless stream, said stateless view having an unbounded number of rows.

17. (Currently Amended) The system of Claim ~~17~~16, wherein each of said view snapshots of said stateless view comprise a state of said initial view including events existent at said materializing of said initial view, including a last event processed during said materializing of said initial view.

18. (Currently Amended) The system of Claim ~~13~~12, wherein said view engine is further configured for processing a plurality of recent view snapshots by maintaining a sequence of a plurality of preceding current view snapshots.

19. (Currently Amended) The system of Claim ~~19~~18, wherein said view engine is further configured for applying a batch set of events to said processing of said recent view snapshots, wherein each event of said batch set has a corresponding one of said recent view snapshots.

20. (Currently Amended) The system of Claim ~~13~~12, wherein said initializing of said updated view is configured to accomplish a recovery of a view state.

21. (Currently Amended) The system of Claim ~~13~~12, wherein said initializing of said updated view is configured to accomplish a re-enabling of a view after a disabling of a view.

22. (Currently Amended) The system of Claim ~~13~~12, wherein said initializing of said updated view is configured to accomplish a load balancing of a view maintenance process.

23. (Currently Amended) In a computer system for monitoring business activity, a computer usable medium having a computer readable program code embodied therein for causing said computer system to perform a method for dynamically initializing a view for a streaming database system, said method comprising:

accessing at least one stream of events;

materializing a view from said stream, wherein said view is dynamically defined from said stream of events from said streaming database system;

processing a plurality of view snapshots from said view; and

generating an initialized view in accordance with said view snapshots wherein said initialized view incorporates new events of said stream.

24. (Currently Amended) The computer usable medium of Claim ~~24~~23 wherein said initialized view is a re-initialization of a previously initialized view.

25. (Currently Amended) The computer usable medium of Claim ~~24~~23, wherein said view is a stateful view resulting from a stateful stream, said stateful view having a bounded number of rows.

26. (Currently Amended) The computer usable medium of Claim ~~26~~25, wherein each of said view snapshots of said stateful view comprise a state of said stateful view

including events existent at said materializing of said stateful view and events accessed after said materializing of said stateful view at a particular time.

27. (Currently Amended) The computer usable medium of Claim 2423, wherein said view is a stateless view resulting from a stateless stream, said stateless view having an unbounded number of rows.

28. (Currently Amended) The computer usable medium of Claim 2827, wherein each of said view snapshots of said stateless view comprise a state of said stateless view including events existent at said materializing of said stateless view, including a last event processed during said materializing of said stateless view.

29. (Currently Amended) The computer usable medium of Claim 2423, further comprising:

processing a plurality of view snapshots by maintaining a sequence of a plurality of preceding current view snapshots.

30. (Currently Amended) The computer usable medium of Claim 3029, further comprising:

applying a batch set of events to said processing of said view snapshots, wherein each event of said batch set has a corresponding one of said view snapshots.

31. (Currently Amended) The computer usable medium of Claim 2423, wherein said generating of said initialized view is configured to accomplish a recovery of a view state.

32. (Currently Amended) The computer usable medium of Claim 2423, wherein said generating of said initialized view is configured to accomplish a re-enabling of a view after a disabling of a view.

33. (Currently Amended) The computer usable medium of Claim ~~24~~23, wherein said generating of said initialized view is configured to accomplish a load balancing of a view maintenance process.